

What is claimed is:

1. A method of producing a non-aqueous electrolyte secondary battery having the positive electrode, negative electrode, electrolytic solution containing a non-aqueous solvent and supporting salt, separator and gasket, comprising a step of assembling and sealing said positive electrode, negative electrode, non-aqueous solvent, electrolytic solution, separator and gasket in said non-aqueous electrolyte secondary battery by caulking, and step of heating.
2. The method of producing a non-aqueous electrolyte secondary battery according to Claim 1, wherein said battery is provided with connecting terminals by welding to connect itself to an outside device.
3. The method of producing a non-aqueous electrolyte secondary battery according to Claim 1, wherein said battery is heated at 180 to 300°C in the heating step.
4. A method of mounting a non-aqueous electrolyte secondary battery on a circuit substrate, comprising a step of assembling and sealing the positive electrode, negative electrode, non-aqueous solvent, electrolytic solution, separator and gasket in said non-aqueous electrolyte secondary battery by caulking, step of heating, and reflow soldering step to mount said non-aqueous electrolyte secondary battery on said circuit substrate on which it is set.
5. The method of mounting a non-aqueous electrolyte

secondary battery according to Claim 4, which comprises a step of welding connecting terminals to said battery, after it is assembled.

6. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the temperature-time profile during the heating step and that during the reflow soldering step is within  $\pm 50\%$  in a heating region of 0 to  $150^{\circ}\text{C}$ .

7. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between heating step time and reflow soldering step time is within  $\pm 50\%$  in a heating region of 0 to  $150^{\circ}\text{C}$ .

8. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the temperature-time profile during the heating step and that during the reflow soldering step is within  $\pm 20\%$  in a heating region of 150 to  $180^{\circ}\text{C}$ .

9. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between heating step time and reflow soldering step time is within  $\pm 20\%$  in a heating region of 150 to  $180^{\circ}\text{C}$ .

10. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between the temperature-time profile during the heating step and that during the reflow soldering step is within  $\pm 10\%$  in

a heating region of 180 to 300°C.

11. The method of mounting a non-aqueous electrolyte secondary battery according to Claim 4, wherein the difference between heating step time and reflow soldering step time is within  $\pm 10\%$  in a heating region of 180 to 300°C.

12. A sealant of rubber-based adhesive with asphalt on the surface for the non-aqueous electrolyte secondary battery.

13. The sealant for the non-aqueous electrolyte secondary battery according to claim 12, wherein said asphalt is a distillate of heated crude oil.

14. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said rubber-based adhesive also has said asphalt inside.

15. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said asphalt is present at 1 to 50%, inclusive, in the rubber-based adhesive.

16. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said asphalt is present at 5 to 20%, inclusive, in the rubber-based adhesive.

17. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said asphalt is blown asphalt.

18. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said asphalt is straight asphalt.

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19. The sealant for the non-aqueous electrolyte secondary battery according to Claim 12, wherein said rubber-based adhesive is butyl rubber-based.

20. A sealant for the non-aqueous electrolyte secondary battery product by mixing an asphalt with rubber-based adhesive in the presence of an organic solvent.

21. A method of producing sealant for non-aqueous electrolyte secondary battery comprising: mixing rubber-based adhesive and asphalt in organic solvent.

22. The method of producing sealant for non-aqueous electrolyte secondary battery, wherein the rubber-based adhesive is butyl rubber-based.

23. The method of producing sealant for non-aqueous electrolyte secondary battery, further comprising heating after the mixing.

24. The method of producing sealant for the non-aqueous electrolyte secondary battery according to Claim 21, wherein said organic solvent is toluene.

25. A method of producing a non-aqueous electrolyte secondary battery comprises a step of assembling and sealing the positive electrode, negative electrode, non-aqueous solvent, electrolytic solution, separator and gasket in said non-aqueous electrolyte secondary battery by caulking, after a solution of the rubber-based adhesive and asphalt dissolved in an organic solvent is spread over the inner surfaces of the positive

electrode can and a surface of a gasket contact with a surface of negative electrode ,and dried, and step of heating.

26. The method of producing a non-aqueous electrolyte secondary battery according to Claim 25, wherein said asphalt is straight asphalt.

27. The method of producing a non-aqueous electrolyte secondary battery according to Claim 26, wherein said solution is dried at range from 80°C to lower than melting point of the gasket.

28. The method of producing a non-aqueous electrolyte secondary battery according to Claim 25, wherein said asphalt is blown asphalt.

29. The method of producing a non-aqueous electrolyte secondary battery according to Claim 28, wherein said solution is dried at range from 100°C to lower than melting point of the gasket.

30. The method of producing a non-aqueous electrolyte secondary battery according to Claim 25, wherein the battery can surface is marked to show that the heating step is over.

31. A non-aqueous electrolyte secondary battery having the positive electrode, negative electrode, electrolytic solution containing a non-aqueous solvent and supporting salt, separator, gasket and connecting terminals which connects said battery to an outside device, which is marked to show that it is subjected heating once during the production process.

32. A non-aqueous electrolyte secondary battery having the positive electrode, negative electrode, electrolytic solution containing a non-aqueous solvent and supporting salt, separator and gasket, wherein it is heated at an around reflow temperature.

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